





AMENDMENTS TO CLAIMS -- MARKED UP VERSION

Please amend the claims as follows:

| | 1 | 1 | (Once amended) A method of determining the current service level of a wireless |
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| | 2 | | communication device, the method comprising [the steps of]: |
| | 3 | • | providing at least three distinct levels of service including a [first level of service] |
| | 4 | | storing service mode, a [second level of service] basic service mode, and a |
| | 5 | | [third level of service] full service mode; |
| | 6 | | distinguishing between the [first service level] storing service mode and the |
| 9 | 7 | | [second service level] basic service mode based upon one or more |
| | - 8 | | characteristics of a forward channel from a messaging system to the |
| Ų. Ų | 9 | | wireless communication device; and |
| ī. | 10 | | distinguishing between the [second service level] basic service mode and the |
| | 11 | | [third service level] full service mode based upon one or more |
| 10 se - 10 se | 12 | | characteristics of a reverse channel from the wireless communication |
| () | 13 | | device to the messaging system. |
| | 1 | 2. | (Once amended) The method of claim 1, wherein new messages destined for the |
| | 2 | | wireless communication device are stored by the messaging system while the |
| | 3 | | wireless communication device is providing the [first level of service] storing |
| | 4 | | service mode. |
| | 1 | 3. | (Once amended) The method of claim 2, wherein new messages destined for the |
| | 2 | | wireless communication device are transmitted to the wireless communication |
| | 3 | | device by the messaging system and stored messages that remain undelivered as a |
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| 4 | result of the wireless communication device providing the [first level of service] | |
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- storing service mode remain undelivered while the wireless communication
- device is providing the [second level of service] basic service mode.
- 4. (Once amended) The method of claim 3, wherein both new messages and stored
- 2 messages are transmitted to the wireless communication device by the messaging
- 3 system while the wireless communication device is providing the [third level of
- 4 service] <u>full service mode</u>.
- 1 5. (Once amended) The method of claim 1, wherein the one or more characteristics
- 2 of the forward channel includes the forward channel's signal quality.
- 1 6. (Once amended) The method of claim 5 further including [the step of] generating
- a signal quality metric representative of the forward channel's signal quality over
- 3 a predetermined period of time.
- 1 7. (Once amended) The method of claim 1, wherein the one or more characteristics
- of the forward channel includes a status.
- 1 8. (Once amended) The method of claim 7, wherein the status represents a value
- from one of a plurality of states, the method further including [the step of]
- associating each of the plurality of states with a weight.
- 1 9. (Once amended) The method of claim 8, wherein the plurality of states [include]
- 2 <u>includes</u>:
- 3 no signal;
- 4 synchronization error;

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| | 5 | | frame error; and |
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| | 6 | .• | good frame. |
| | 1 | 10. | (Once amended) The method of claim 8 further including [the step of] generating |
| | 2 | | a signal quality metric representative of the forward channel's signal quality over |
| | 3 | | a predetermined period of time based upon weighted values of the status over the |
| | 4 | | predetermined period of time. |
| | 1 | 12. | (Once amended) A method of transitioning between service modes and indicating |
| | 2 | | a current service mode to a user of a wireless communication device, the method |
| | 3 | | comprising [the steps of]: |
| | 4 | | determining a status of a signal associated with a forward channel from a |
| ن ایران ای | 5 | | messaging system to the wireless communication device; |
| n D | 6 | | determining a quality metric based upon the status over a predetermined period of |
| | 7 | | time; |
| | . 8 | | providing at least a full service mode, a basic service mode, and a storing service |
| | 9 | | mode; |
| p = · | 10 | | if the current service mode is the storing service mode, transitioning to the basic |
| | 11 | | service mode after determining the quality metric is better than a first |
| | 12 | | predetermined threshold; |
| | 13 | | if the current service mode is the basic service mode, transitioning to the full |
| | 14 | | service mode after verification of a reverse channel from the wireless |
| | 15 | | communication device to the messaging system; and |
| | 16 | | if the current service mode is the full service mode, transitioning to the basic |
| | 17 | | service mode after determining the reverse channel has become degraded. |
| | | | |





| | 1 | 13. | (Once amended) The method of claim 12 further comprising [the step of] |
|------------------|---|-----|---|
| | 2 | | providing an indication of the current service mode to the user. |
| | 1 | 14. | (Once amended) The method of claim 12 further [including the steps of] |
| | 2 | | comprising: |
| | 3 | | determining an initial value for the current service mode by: |
| | 4 | | inspecting the signal for synchronization information, |
| | 5 | | initializing the current service mode to the storing service mode if no |
| | 6 | | synchronization information is found, and |
| : 10 = = = | 7 | | initializing the current service mode to the basic service mode if |
| | 8 | | synchronization information is found. |
| .មួ .មួ រក | 1 | 15. | (Once amended) The method of claim 12 further [including the steps of] |
| 3 | 2 | | comprising: |
| # # | 3 | | in the basic service mode, transitioning to the storing service mode after the status |
| . 4 . 5 | 4 | | indicates the wireless communication device is out of range; |
| | 5 | | in the full service mode, transitioning to the basic service mode after determining |
| | 6 | | the quality metric is worse than a second predetermined threshold; and |
| | 7 | | in the full service mode, transitioning to the storing service mode after the status |
| | 8 | | indicates the wireless communication device is out of range. |

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| | 1 | 16. | (Once amended) The method of claim 12, wherein the storing service mode |
|-----------------|----|-----|---|
| | 2 | | includes a first storing state and a second storing state, and wherein the basic |
| | 3 | | service mode includes a first basic state, a second basic state, and a third basic |
| | 4 | | state, the method further [including the steps of] comprising: |
| | 5 | | in the first storing state, re-initializing a service quality monitoring process after |
| | б | | the status indicates a good frame has been detected on the forward |
| | 7 | | channel; |
| | 8 | | in the second storing state, beginning a registration process after the status |
| | 9 | | indicates a ping has been received from the messaging system on the |
|]] f | 10 | | forward channel; |
| 발 발 | 11 | | in the first basic state, transitioning to the second basic state after determining the |
| 机压缩 医乳状反射 医阴茎周围 | 12 | | quality metric is better than a third predetermined threshold; |
| | 13 | | in the second basic state, transitioning to the third basic state after determining the |
| Hand of Alberta | 14 | | quality metric is worse than the second predetermined threshold; and |
| i. | 15 | | in the third basic state, transitioning to the second basic state after determining th |
| ar. | 16 | | quality metric is better than the third predetermined threshold. |
| | 1 | 19. | (Once amended) The method of claim 12 further including [the step of] |
| | 2 | | determining whether or not to attempt registering with the messaging system |
| | 3 | | based upon the current service mode. |
| | 1 | 20. | (Once amended) The method of claim 12 further including [the step of] |
| | 2 | | periodically evaluating the quality metric. |

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| | 1 | 21. | (Once amended) A method of registering a wireless communication device with a |
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| | 2 | ٠. | messaging system, the method comprising [the steps of]: |
| | 3 | | providing a current service mode in one of a plurality of states including: |
| | 4 | | a storing service mode in which new messages destined for the wireless |
| | 5 | | communication device are not received by the wireless |
| | 6 | | communication device, |
| | 7 | | a basic service mode in which new messages destined for the wireless |
| | 8 | | communication device are received by the wireless communication |
| | 9 | | device and stored messages that remain undelivered as a result of |
| () () | 10 | | the wireless communication device having been in the storing |
| | 11 | | service mode remain undelivered while the wireless |
| ់ម រ៉ូដូ វិសិ | 12 | | communication device is in the basic service mode, and |
| | 13 | | a full service mode in which both new messages and stored messages are |
| The state of the s | 14 | | received by the wireless communication device while the wireless |
| 1- 10 | 15 | | communication device is in the full service mode; |
| }÷ €4 | 16 | | a registration process determining what action to take based upon the current |
| | 17 | | service mode. |
| | 1 | 22. | (Once amended) The method of claim 21 further including [the steps of]: |
| | 2 | | the registration process transmitting one or more registration messages to the |
| | 3 | | messaging system during the basic service mode; and |
| | 4 | | the registration process transmitting no registration messages to the messaging |
| | 5 | | system during the full service mode and the storing service mode. |

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| | 1 | 23. | (Once amended) The method of claim 21 further including [the steps of]: |
|-------------|----|-----|---|
| | 2 | | determining a status of a signal associated with a forward channel from a |
| | 3 | | messaging system to the wireless communication device; |
| | 4 | | determining a quality metric based upon the status over a predetermined period of |
| | 5 | | time; |
| | 6 | | if the current service mode is the storing service mode, transitioning to the basic |
| | 7 | | service mode after determining the quality metric is better than a first |
| | 8 | | predetermined threshold; |
| A VC | 9 | | if the current service mode is the basic service mode, transitioning to the full |
| ii ii | 10 | | service mode after verification of a reverse channel from the wireless |
| ij | 11 | | communication device to the messaging system; and |
| | 12 | | if the current service mode is the full service mode, transitioning to the basic |
| | 13 | | service mode after determining the reverse channel has become degraded. |
| 3, | 1 | 24. | (Once amended) The method of claim 23 further including [the steps of]: |
| C C | 2 | | determining an initial value for the current service mode by |
| 7.14 | 3 | | inspecting the signal for synchronization information, |
| | 4 | | initializing the current service mode to the storing service mode if no |
| | 5 | | synchronization information is found, and |
| | б | | initializing the current service mode to the basic service mode if |
| | 7 | | synchronization information is found |

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| 1 | 25. | (Once amended) The method of claim 23 further including [the steps of]: |
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| 2 | | in the basic service mode, transitioning to the storing service mode after the status |
| 3 | | indicates the wireless communication device is out of range; |
| 4 | | in the full service mode, transitioning to the basic service mode after determining |
| 5 | | the quality metric is worse than a second predetermined threshold; and |
| б | | in the full service mode, transitioning to the storing service mode after the status |
| 7 | | indicates the wireless communication device is out of range. |
| | | |

Please add the following claims:

| 1 | <i>5</i> 0. | (Mem) A method comprising; |
|----|-------------|---|
| 2 | | determining a status of a forward channel signal from a messaging system to a |
| 3 | | wireless communication device; |
| 4 | | determining a quality metric based upon the status of the forward channel signal |
| 5 | | over a predetermined period of time; |
| 6 | | providing at least a full service mode, a basic service mode, and a storing service |
| 7 | | mode, wh erein : |
| 8 | | the storing service mode comprises at least a first storing state and a |
| 9 | | second storing state, and |
| 10 | | the basic service mode comprises at least a first basic state, a second basic |
| 11 | | state, and a third basic state; |
| 12 | | if the current service mode is the storing service mode, transitioning to the basic |
| 13 | | service mode after determining the quality metric is better than a first |
| 14 | | predetermined threshold; |
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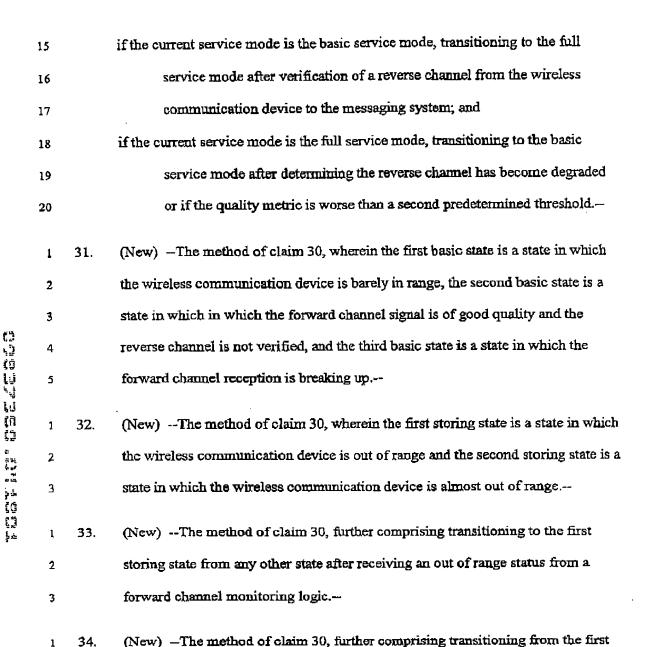
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predetermined threshold .--

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basic state to the second basic state if the quality metric is better than a third

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- 1 35. (New) -The method of claim 34, further comprising transitioning from the first
 2 basic state or the third basic state to the second storing state if the quality metric is
 3 worse than a fourth predetermined threshold.--
- 1 36. (New) -The method of claim 30, further comprising transitioning from the
 2 second basic state to the third basic state if the quality metric is worse than the
 3 second predetermined threshold.-
- 1 37. (New) --The method of claim 30, wherein the first basic state is the initial state
 2 on reset if a synchronization signal is found on the forward channel.--
- 1 38. (New) —The method of claim 30, wherein the first storing state is the initial state
 2 on reset if a synchronization signal is not found on the forward channel.—

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